

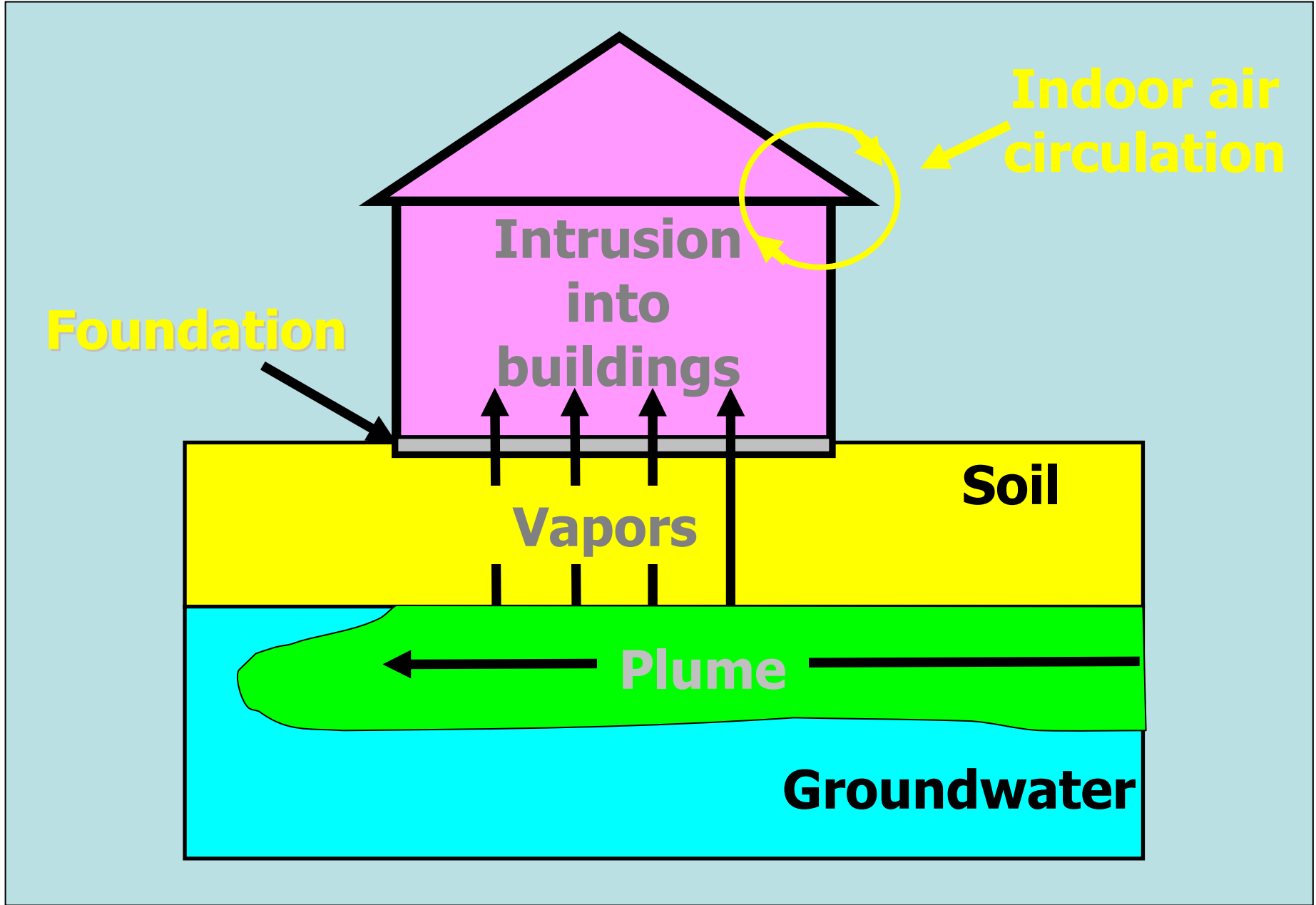
## Indoor Air Results

*In addition to TCE (the primary contaminant of concern related to the site), 12 other chemicals were detected, 4 of which exceed the California Human Health Screening Level (CHHSL) in at least one location.*

Chemical	CHHSL* (ug/m <sup>3</sup> )	Homes above CHHSL	Notes
TCE	1.22	5	2 additional homes with TCE in crawlspace
PCE	0.412	14	Not a Hookston chemical
1,2-DCA	0.116	8	Not a Hookston chemical
Vinyl Chloride	0.032	1	
Benzene	0.084	All houses tested	Not a COC** at Hookston Site Also found in ambient outdoor air

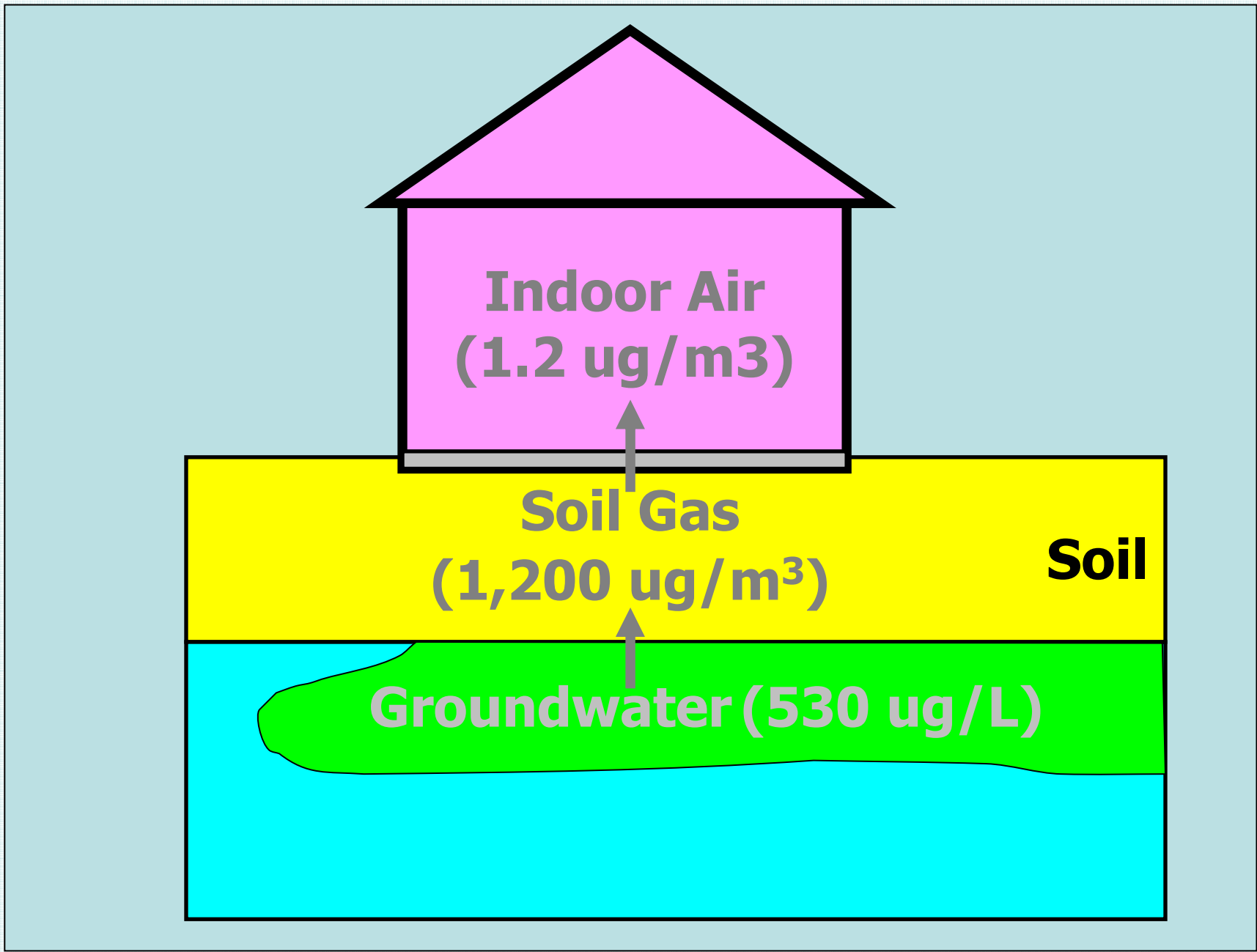
\* CHHSL = California Human Health Screening Level

### Vapor Intrusion



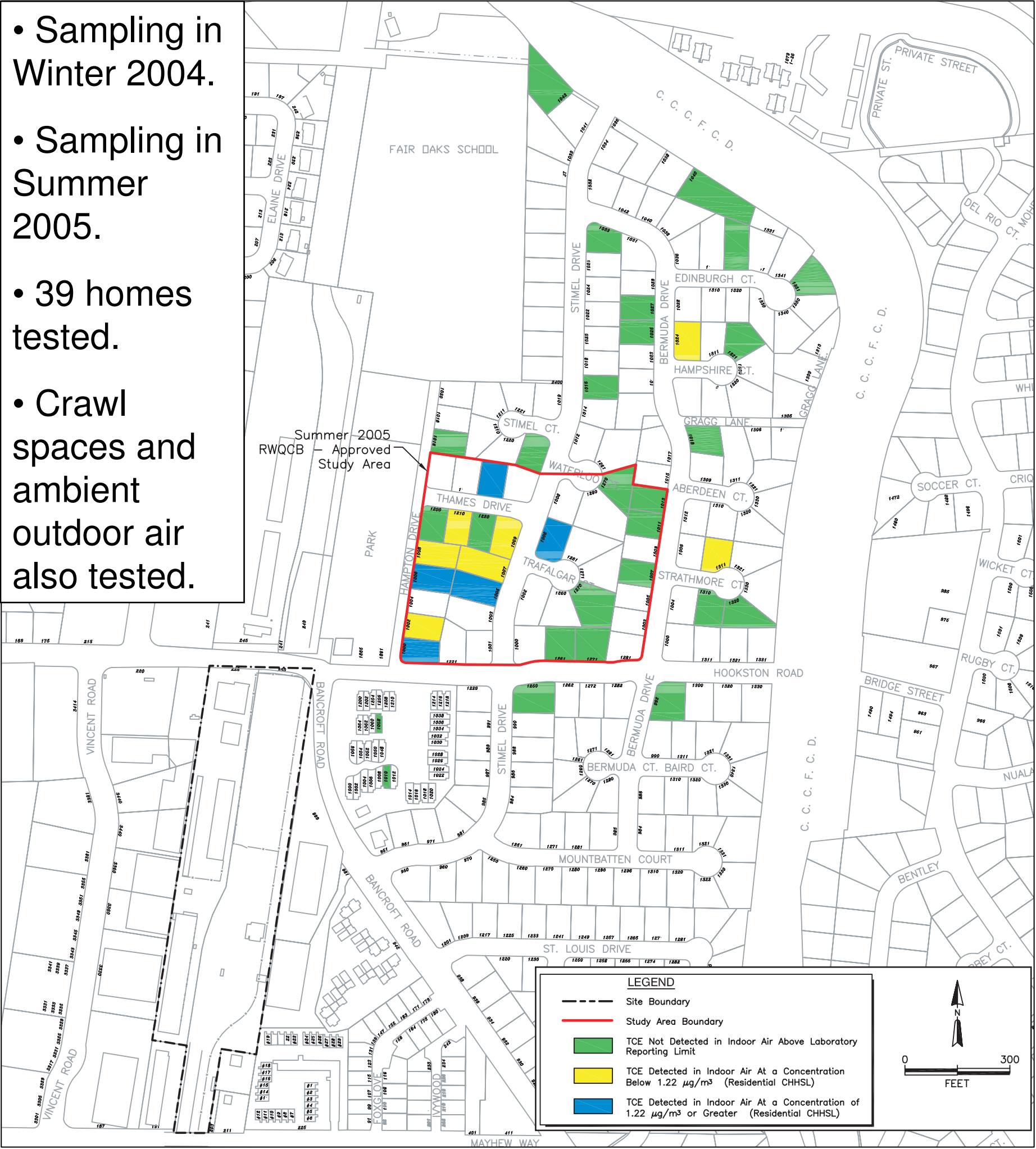
- Volatile organic compounds in shallow groundwater vaporize and rise into unsaturated soil above the groundwater plume.
- Vapors may enter buildings through the foundation or crawl space.
- Vapors may migrate into habitable space and circulate as indoor air.

### TCE Screening Levels



*Indoor air is likely to exceed residential CHHSL if the concentration of TCE in groundwater under the building is 530 ug/L or greater.*

### Indoor Air Sampling to Date



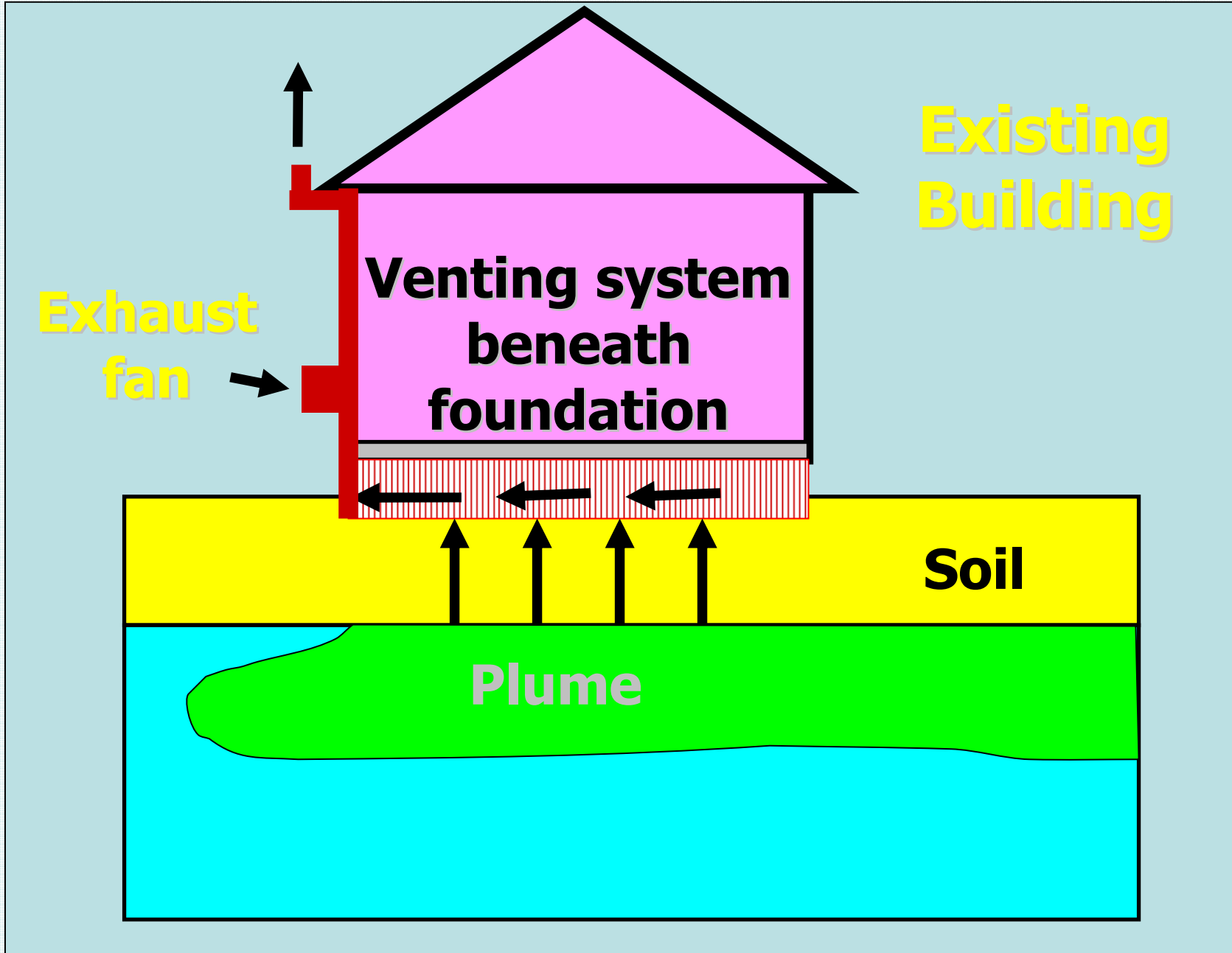
### Summer 2005 Sampling

- Covered broader areas and included many more samples than Winter 2004 program.
- Included “non-Hookston” chemicals.
- Results show **no significant seasonal variations**.
- **Extent of TCE detections in indoor air confined to a small area above the commingled plume axis** (the block bounded by Hampton Dr., Thames Dr., Stimel Dr., and Hookston Rd.)



Summa cannister used in indoor air sampling.

### Crawl Space Vapor Removal Systems appear effective at reducing indoor TCE



- Vapor removal systems vent vapors from soil gas and crawl spaces to outside the building.
- Offered to all residents in the neighborhood with TCE > 1.3 ug/m<sup>3</sup> (residential CHHSL).
- Installed in 3 homes following Winter 2004 sampling.
- Samples during Summer 2005 contained TCE below CHHSL.

### California Human Health Screening Levels (CHHSL)

- Theoretical excess lifetime cancer risk of 1-in-1million using standard exposure assumptions and published toxicity values.
- Presence of a chemical at concentrations greater than CHHSL does not indicate that adverse impacts to human health are occurring or will occur.
- Chemical concentrations greater than CHHSL suggests that further evaluation of potential human health concerns is warranted.